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Barrier synchronization on wormhole-routed networks- [hku.hk](#) [PDF]
YZ Sun, PYS Cheung, XL Lin - IEEE Transactions on Parallel and Distributed Systems, 2001 - hub.hku.hk
... free efficient barrier operations on wormhole networks in [8]. A multidestination worm is a message that carries multiple destination addresses so that it can ...
Cited by 7 - Related articles - Web Search - BL Direct - All 9 versions

Multicast performance analysis for high-speed torus networks- [ufl.edu](#) [PDF]
S Oral, A George - Local Computer Networks, 2002. Proceedings. LCN 2002. 27th ..., 2002 - ieexplore.ieee.org
... same time. A worm that contains multiple destination addresses in its header is the basis for path-based communication. When a destination ...
Cited by 4 - Related articles - Web Search - Library Search - BL Direct - All 14 versions

Should scalable parallel computers support efficient hardware multicast?- [psu.edu](#) [PDF]
LM Nil - Proceedings of the 1995 International Conference on Parallel ..., 1995 - books.google.com
... 4.3 Asynchronous Multi-head Worm In asynchronous multi-head worm, each branch ... Headers
A multicast message has to carry the multiple-destination information in ...
Cited by 68 - Related articles - Web Search - BL Direct - All 2 versions

Multicast Performance Analysis for High-Speed Torus Networks
A George, S Oral - 2002 - Storming Media
... same time. A worm that contains multiple destination addresses in its header is the basis for path-based communication. When a destination ...
Related articles - Web Search

[CITATION] LAYERED MULTI-USER CRYPTOSYSTEMS by
ME Spencer, SE Tavares - Canadian Communications & Energy Conference: [papers]=: ..., 1982 - Institute of Electrical and Electronics Engineers
Related articles - Web Search

Performance evaluation of cache depot on CC-NUMA multiprocessors- [psu.edu](#) [PDF]
HC Hsiao, CT King - Parallel and Distributed Systems, 1998. Proceedings., 1998 ..., 1998 - ieexplore.ieee.org
... A multi-hop worm is similar to a multidestination worm for multicasting in that both carry multiple destination addresses in their header and they are routed ...
Cited by 1 - Related articles - Web Search - All 12 versions

Designing tree-based barrier synchronization on 2d mesh networks
CT Jenq-Shyan - 1998 - doi.ieee-computersociety.org
... A multidestination worm is a message which carries multiple destination addresses so that it can be sent to multiple nodes with a single startup delay. ...
Cited by 18 - Related articles - Web Search - BL Direct - All 8 versions

Efficient barrier synchronization in wormhole-routed mesh networks supporting turn model
KP Fan, CT King - Parallel Computing, 1998 - Elsevier
... The basic concept of multidestination messaging is to carry multiple destination addresses in a ... In step 1, a gather worm is initiated by the rightmost member ...

[Related articles](#) - [Web Search](#) - [All 4 versions](#)

[\[PDF\] ►Real-Time Detection of Hidden Traffic Patterns](#)

FHMKTV Lakshman - International Conference on Network Protocols; Proceedings, 1993 - [ieee-icnp.org](#)
... may not reveal a possible on-going DoS **attack** since such **attack** may consist ... An example is a router processing arrivals for **multiple destination** IP-addresses. ...

[Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 3 versions](#)

[Turn grouping for efficient barrier synchronization in wormholemesh networks- ►\[nthu.edu.tw\]\(#\)](#)

[\[PDF\]](#)

KP Fan, CT Kin - Parallel Processing, 1997., Proceedings of the 1997 ..., 1997 - [ieeexplore.ieee.org](#)

... concept of **multidestination** messaging is to carry **multiple destination addresses** in a ... types of syn-chronization messages, reduction **worm**, distribution **worm** ...

[Cited by 2](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 14 versions](#)

[\[PDF\] ►A dynamic mix method for wireless ad hoc networks](#)

S Jiang, NH Vaidya, W Zhao - MILCOM, 2001 - [cs.tamu.edu](#)

... **seed** material carried by Mix Request is designed to fight against replay **attack**. ... Recall that **multiple Destination** Queries may be triggered by same Mix Request ...

[Cited by 19](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#) - [All 6 versions](#)

[MICA: a memory and interconnect simulation environment for cache-based architectures-](#)

[►\[nihu.edu.tw\]\(#\) \[PDF\]](#)

HC Hsiao, CT King - Simulation Symposium, 2000.(SS 2000) Proceedings, 33rd ..., 2000 - [ieeexplore.ieee.org](#)

... The replica- tion is based on the **multiple destination** addresses carried in the message header. ... A communication thread de- notes a message **worm**. ...

[Cited by 13](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 14 versions](#)

[Method and system for sending data between computers using a secure pipeline](#)

TJ Schwab, HD Steinberg, EL Franklin - US Patent App. 09/790,647, 2001 - [Google Patents](#)

... world. Such a physical "air gap" between the sensitive data and the outside world completely prevents computer **attack** or invasion. ...

[Related articles](#) - [Web Search](#) - [All 4 versions](#)

[Exploiting Network Locality for CC-NUMA Multiprocessors- ►140.116.245.208 \[PDF\]](#)

HC Hsiao, CT King - The Journal of Supercomputing, 2001 - [Springer](#)

... the **multiple destination** addresses carried in the message header. With this hardware capability, the sender only has to send one **multidestination worm** to reach ...

[Cited by 2](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 10 versions](#)

[The group security association for secure multicasting](#)

W Park, J Nah, S Sohn, D Kim - Ninth IEEE International Conference on Networks, 2001. ..., 2001 - [ieeexplore.ieee.org](#)

... For multicast traffic, there are **multiple destination** systems per multicast group. ... exchange mechanisms, protection against the denial-of-service **attack** uses a ...

[Related articles](#) - [Web Search](#) - [All 3 versions](#)

[SOS: Secure overlay services- ►\[utd.edu\]\(#\) \[PDF\]](#)

AD Keromytis, V Misra, D Rubenstein - Proceedings of the 2002 conference on Applications, ..., 2002 - [portal.acm.org](#)

... a breach in communication that is the re- sult of an **attack** that shuts ... **Multiple destination** nodes for a given identifier can be created by using different hash ...

[Cited by 357](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 50 versions](#)

[PDF] ► Bro: A system for detecting network intruders in real-time

V Paxson - Comput. Networks, 1999 - cs.jhu.edu

... that do what Bro does, generally with much more sophisticated interfaces and management
soft- ware [In99, To99, Ci99], ϕ and larger **"attack signature"** li ...

Cited by 1053 - Related articles - View as HTML - Web Search - All 111 versions

Russell JF Fang COMSAT Laboratories, Clarksburg, MD. 20734 USA

AOFCT TO - New Concepts in Multi-User Communication, 1981 - books.google.com

... and this system appears to be secure against known plaintext **attack**. ... Hi DECONCATENATOR

Figure 6. Simplified block diagram of a **multiple-destination** cryptosystem ...

Related articles - Web Search

Optimal congestion control in single destination networks

G Stassinopoulos, P Konstantopoulos - Communications, IEEE Transactions on [legacy, pre-1988], 1985 -
ieeexplore.ieee.org

... ever, that the geometrical properties of the state velocity set and its interpretations,
given in the paper, are of considerable value for the **attack** of these ...

Cited by 18 - Related articles - Web Search - All 3 versions

File archival

RH Sathyanarayan - US Patent App. 09/834,833, 2001 - Google Patents

... Imple- mentation, there can be multiple source directories and **multiple destination**
directories ... mentation process, or in a process that performs **virus** checks as ...

Web Search - All 7 versions

Smart allocation of bandwidth for multiple independent calls on a digital network

NI Malik - US Patent 6,496,504, 2002 - Google Patents

Page 1. US006496504B1 (12) United States Patent Malik (io) Patent No.: US

6,496,504 B1 (45) Date of Patent: *Dec. 17,2002 (54) SMART ...

Cited by 2 - Related articles - Web Search - All 2 versions

Method and apparatus for providing user authentication using a back channel

RJ Vandergeest, KT Simzer, ER Skinner - US Patent App. 09/855,183, 2001 - Google Patents

... However, some such systems can be vulnerable to **attack**. ... For example, a user may have
multiple destination units such as a radiotelephone, pager, or multiple ...

Web Search - All 2 versions

Packaging of GaAs signal processors on multichip modules

BK Gilbert, GW Pan, M Found, MN Rochester - IEEE Transactions on Components, Hybrids, and Manufacturing
..., 1992 - ieeexplore.ieee.org

... polyamic acid during the cure process, which in turn can **attack** the metal ... if
transmission line TAB leads are provided, in a **multiple destination** signal net ...

Cited by 7 - Related articles - Web Search - All 2 versions

Method and system for virtual addressing in a communications network

MS Foster, MA Dorsett - US Patent App. 10/062,199, 2001 - Google Patents

Page 1. US 20020159452A1 (19) United States (12) Patent Application Publication

(io- Pub. NO.: US 2002/0159452 Al Foster et al. (43) Pub. Date: Oct. ...

Related articles - Web Search - All 5 versions

[PDF] ► IP filter based firewalls howto

B Conoboy, E Fichtner - IPFilter Project, Mar, 2000 - coffeenix.net

... To do otherwise opens the internal network for a smurf **attack**. These two lines would
prevent our hypothetical network from being used as a smurf relay: ...

Cited by 8 - Related articles - View as HTML - Web Search - All 65 versions

A bandwidth-efficient implementation of mesh with multiple broadcasting- ► [kaisl.ac.kr](#) [PDF]
JH Choi, BW Kim, KH Park, KI Park - Parallel Processing, 1999. Proceedings. 1999 International ... 1999 -
[ieeexplore.ieee.org](#)
... bus, those nodes on the mesh that are not neighbors can communicate directly and
a source node can communicate with **multiple destination** nodes simultaneously ...
[Cited by 4](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 7 versions](#)

[book] Jxta: Java P2P Programming- ► [parma.ru](#) [PDF]
D Brookshier, D Brookshier - 2002 - [books.google.com](#)
Page 1. Daniel Brookshier Darren Covoni Navaneeth Krishnan FOREWORD BY JUAN CARLOS
SOTO, GROUP MARKETING MANAGER FOR PROJECT JXTA SAMS 'W>J Page 2. What is JXTA ...
[Cited by 109](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 15 versions](#)

Variable threshold receiver
TE Barclay, JA Zett - US Patent 4,516,248, 1985 - [Google Patents](#)
... by track- ing the average of the peak signal levels of the received signal, eliminating
the need for a lengthy preamble to compensate for receiver **attack** time. ...
[Cited by 2](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

[book] BGP: Building reliable networks with the border gateway protocol
I Van Beijnum - 2002 - [books.google.com](#)
... or rather the ARPANET, which is regarded as the origin of today's Internet—was invented
by the military as a network that could withstand a nuclear **attack**. ...
[Cited by 26](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 2 versions](#)

Optimized broadcasting and multicasting protocols in cut-throughouted networks- ► [psu.edu](#)
[PDF]
J Cohen, P Fraigniaud, J Konig, A Raspaud - IEEE Transactions on Parallel and Distributed Systems, 1998 -
[ieeexplore.ieee.org](#)
... In **worm- hole** routing, a message is decomposed in small units ... This hypothesis assumes
that a message header can contain **multiple destination addresses** and the ...
[Cited by 15](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 11 versions](#)

[PDF] ► Congress: CONnection-oriented Group-address RESolution Service
A Tai - 1998 - [Citeseer](#)
... ATM connections is the point-to-multipoint con- nection, which connects a single
source end-system (known as the root node) to **multiple destination** end-systems ...
[Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 5 versions](#)

[PDF] ► Synthesis of Parallel Hardware Implementations from Synchronous Dataflow Graph Specifications by ...
EA Lee - 1998 - [ptolmry.eecs.berkeley.edu](#)
Page 1. Synthesis of Parallel Hardware Implementations from Synchronous
Dataflow Graph Specifications by Michael Cameron Williamson ...
[Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 2 versions](#)

System for translation and communication of messaging protocols into a common protocol
JE Lewis, DT Lai, SJ Richardson, RMK Tam, J ... - US Patent App. 10/299,550, 2002 - [Google Patents](#)
Page 1. US 20030101283A1 (19) United States (12) Patent Application Publication
(10) Pub. NO.: US 2003/0101283 Al Lewis et al. (43) Pub. ...
[Web Search](#) - [All 2 versions](#)

Baseband Signal Processing
E Saggese - Satellite Communication Systems Design, 1993 - [books.google.com](#)
Page 99. Baseband Signal Processing E. Saggese I. Introduction 3 This chapter

is devoted to operations performed on the baseband ...

[Related articles - Web Search](#)

Method and apparatus for expanding data rate in an ISDN communication system

Nl Malik - US Patent 6,081,841, 2000 - Google Patents

Page 1. United States Patent Malik US006081841A [ij] Patent Number: [45]

Date of Patent: 6,081,841 Jun. 27, 2000 [54] METHOD AND ...

[Related articles - Web Search](#) - [All 2 versions](#)

The LHAM log-structured history data access method- ▶ [psu.edu](#) [pdf]

P Muth, P O'Neil, A Pick, G Weikum - The VLDB Journal The International Journal on Very Large ..., 2000 - Springer

... The exception from this rule are components that may reside on archive media such as tapes or WORM units; these components are formed based on a redundant ...

Cited by 12 - [Related articles - Web Search](#) - [All 8 versions](#)

Methods and systems for tracking and playing back errors in a communications network

J McNamara - US Patent App. 10/299,549, 2002 - Google Patents

Page 1. US 20030131311A1 (19) United States (12) Patent Application Publication

(io> Pub. NO.: US 2003/0131311 AI McNamara (43) Pub. Date: Jul. ...

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System and method for providing message notification

JE Lewis - US Patent App. 10/299,551, 2002 - Google Patents

Page 1. US 20040087300A1 (19) United States (12) Patent Application

Publication (io> Pub. NO.: US 2004/0087300 AI Lewis (43) Pub. ...

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System and method for password protecting a distribution list

JE Lewis - US Patent App. 10/299,934, 2002 - Google Patents

Page 1. US 20030097597A1 (19) United States (12) Patent Application

Publication (io> Pub. NO.: US 2003/0097597 AI Lewis (43) Pub. ...

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OVERHEAD LIFTING CRANES, HOISTS, AND MONORAILS

L FEIT, JD MITCHELL - Materials Handling Handbook, 1985 - [books.google.com](#)

... It is therefore necessary to provide curves in the monorail system; and where multiple destination points are involved, it becomes necessary to provide the ...

[Web Search](#)

Distributed internet multicast system for the stock market

NF Maxemchuk, DH Shur - US Patent App. 09/794,112, 2001 - Google Patents

Page 1. US 20020120837A1 (19) United States (12) Patent Application Publication

(io> Pub. NO.: US 2002/0120837 AI Maxemchuk et al. (43) Pub. Date: Aug. ...

[Web Search](#) - [All 2 versions](#)

Communicating data through a network

MS Foster, MA Dorsett - US Patent App. 10/126,489, 2002 - Google Patents

Page 1. US 20020184529A1 (19) United States (12) Patent Application Publication

(io> Pub. NO.: US 2002/0184529 AI Foster et al. (43) Pub. Date: Dec. ...

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[book] LAN technologies explained

P Miller, M Cummins - 2000 - [books.google.com](#)

Page 1. Philip Miller Michael Cummins Digital Press Technologies Explained Page

2. Page 3. LAN Technologies Page 4. Page 5. LAN Technologies ...

Cited by 5 - Related articles - Web Search - Library Search - All 3 versions

[PDF] ► [Commercial electronic publishing over open networks: a global approach based on mobile objects \(...](#)

JH Morin - 1999 - cui.unige.ch

... of our work. However, we find it useful, to put our work into context and define our angle of **attack** on the domain. We have found ...

Cited by 11 - Related articles - View as HTML - Web Search - Library Search - All 5 versions

Key authors: L Ni - D Brookshier - A Keromytis - V Paxson - V Misra

(virus OR worm OR attack) ("multipl

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Tip: Try removing quotes from your search to get more results.

File archival

RH Sathyanarayan - US Patent App. 09/834,833, 2001 - Google Patents
... implementation, there can be multiple source directories and multiple destination directories ... mentation process, or in a process that performs virus checks as ...
Web Search - All 7 versions

SOS: Secure overlay services- ▶ utd.edu [PDF]

AD Keromytis, V Misra, D Rubenstein - Proceedings of the 2002 conference on Applications, ..., 2002 - portal.acm.org
... μ overlay hops. Multiple destination nodes for a given identifier can be created by using different hash functions. In addition ...
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System for translation and communication of messaging protocols into a common protocol

JE Lewis, DT Lai, SJ Richardson, RMK Tam, J ... - US Patent App. 10/299,550, 2002 - Google Patents
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The LHAM log-structured history data access method- ▶ psu.edu [PDF]

P Muth, PO'Neil, A Pick, G Weikum - The VLDB Journal The International Journal on Very Large ..., 2000 - Springer
... The exception from this rule are components that may reside on archive media such as tapes or WORM units; these components are formed based on a redundant ...
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JE Lewis - US Patent App. 10/299,934, 2002 - Google Patents
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L FEIT, JD MITCHELL - Materials Handling Handbook, 1985 - books.google.com

... It is therefore necessary to provide curves in the monorail system; and where **multiple destination** points are involved, it becomes necessary to provide the ...

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[book] Jxta: Java P2P Programming- ▶ [parma.ru](#) [PDF]

D Brookshier, D Brookshier - 2002 - books.google.com

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detecting computer worms packet destination

- 2002

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Search in all subject areas.

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D Bulatovic, D Velasevic - Lecture Notes in Computer Science, 1999 - Springer

... for example denial of service, virus, **worm** or privacy ... this context, every agent would try to **detect** anomalous intrusions in a **computer** system under ...

Cited by 10 - Related articles - Web Search - BL Direct - All 4 versions

[PDF] ► A method to detect intrusive activity in a networked environment

LT Heberlein, KN Levitt, B Mukherjee - Proceedings of the 14th National Computer Security ... 1991 - netsq.com

... **Worms**, and Viruses. ... 13th National **Computer** Security Conference, pp ... 7. LT Heberlein, "Towards **Detecting** Intrusions in a networked Environment," Technical Report ...

Cited by 35 - Related articles - Web Search

An attack signature model to computer security intrusion detection

AM Cansian, ARA da Silva, M de Souza - MILCOM 2002. Proceedings, 2002 - ieeexplore.ieee.org

... bugs, used in the Internet **Worm** attack [3 ... unacceptable behavior and attempts to **detect** its occurrence ... of misuse behavior against **computer** network environments ...

Cited by 2 - Related articles - Web Search - BL Direct

Using Relational Schemata in a Computer Immune System to Detect Multiple-Packet Network Intrusions

JL Babo - 2002 - Storming Media

... 5.7.4 Fruit With **Worms** ... One area of research that holds much promise in **detecting** ... is the use of an Artificial Immune System (AIS) or **Computer** Immune System ...

Related articles - Web Search - Library Search - All 2 versions

Digging for worms, fishing for answers

F Buchholz, TE Daniels, JP Early, R Gopalakrishna, ... - Computer Security Applications Conference, 2002. Proceedings ... 2002 - ieeexplore.ieee.org

... Proceedings of the 18th Annual **Computer** Security Applications ... being put into stopping **worms** today focuses on ... intrusion detection systems can **detect** attempts to ...

Cited by 10 - Related articles - Web Search - All 2 versions

[book] Computer intrusion detection and network monitoring: a statistical viewpoint- ►hu.edu

[PDF]

DJ Marchette - 2001 - books.google.com

... **Computer** professionals with a knowledge of basic net ... the approaches to **detecting** these and other attacks ... The final section covers viruses, **worms**, and other types ...

Cited by 76 - Related articles - Web Search - Library Search - All 7 versions

Method and apparatus for providing node security in a router of a packet network

VM Patel, JP Dorenbosch - US Patent App. 09/976,516, 2001 - Google Patents

... for example, a workstation, a personal **computer**, or a ... security program 214 uses to **detect** harmful data ... potential presence of known viruses, **worms**, Trojan horses ...

Web Search - All 6 versions

A network security monitor- ► ucdavis.edu [PDF]

LT Heberlein, GV Dias, KN Levitt, B Mukherjee, J ... - 1990 IEEE Computer Society Symposium on Research in Security ... - 1990 - ieeexplore.ieee.org

... a **hostile program** or a hu- man sitting at a **computer**. ... a simple node going down to a **network worm**, can be ... be sure with a high probability of **detecting an attack** ...

Cited by 268 - Related articles - Web Search - All 16 versions

[PDF] ► **An Intrusion Detection Scheme Utilizing Teiresias to Determine a Computer's DNA Sequence** ...

S Hu - 2002 - sfu.ca

... of such an attack was the use of the Notepad **Worm** that is ... False Positives Attacks **Detect** (out of 10) ... A port can be seen as a door into a **computer system** and ...

Cited by 1 - Related articles - View as HTML - Web Search - All 3 versions

The architecture of a network level intrusion detection system

R Heady, G Luger, A Maccabe, M Servilla - 1990 - osti.gov

... Luger Arthur Maccabe Mark Servilla Department of **Computer Science University** ... the possibility of using this technology to **detect** and react to **worm programs** ...

Cited by 196 - Related articles - Web Search - Library Search

Fuzzy network profiling for intrusion detection- ► psu.edu [PDF]

JE Dickerson, JA Dickerson - Fuzzy Information Processing Society, 2000. NAFIPS. 19th ... - 2000 - ieeexplore.ieee.org

... The tall, **worm-like** structures indicate regular network connections. ... in a rule set for **detecting** suspicious connections ... an NDC ran on the same **computer** as an ...

Cited by 123 - Related articles - Web Search - Library Search - All 14 versions

Case study: Interactive visualization for internet security- ► psu.edu [PDF]

ST Tech, KL Ma, SF Wu, X Zhao - Proceedings of the conference on Visualization'02, 2002 - portal.acm.org

... The brown lines in Figure 6 show all the routes to IP prefix 55/8 within a minute during the Nimda **worm** attack in ... **Detecting** intruders in **computer systems**. ...

Cited by 45 - Related articles - Web Search - All 16 versions

Detecting dissemination of malicious programs

CD Jeffries, CS Lingafelt, NC Strole - US Patent App. 10/120,705, 2002 - Google Patents

... 11, 2002 A method, system and **computer** program product ... By **detecting** random **destination** IP addresses, the ... of a malicious program, eg, virus, **worm** program, may ...

Related articles - Web Search - All 4 versions

The SP1 high-performance switch- ► ibm.com [PDF]

CB Stunkel, DG Shea, DG Grice, PH Hochschild, M ... - Scalable High-Performance Computing Conference, 1994. , ... - 1994 - ieeexplore.ieee.org

... The 0-0 and 1-1 en- codings are invalid to **detect** token errors. ... A **packet** contains no route flits when it reaches its **destination**. ...

Cited by 304 - Related articles - Web Search - Library Search - BL Direct - All 7 versions

User-level network interface protocols- ► psu.edu [PDF]

RAF Bhoedjang, T Ruhl, HE Bai - **Computer**, 1998 - ieeexplore.ieee.org

... 56 **Computer** ... While simple, **polling** is not always the most efficient method to **detect** incoming packets ... the type of host CPU, the DMA engine, and the **packet** size. ...

Cited by 163 - Related articles - Web Search - Library Search - BL Direct - All 20 versions

[PDF] ► **Self-Securing Network Interfaces: What, Why and How?**

... MELLON UNIV PITTSBURGH PA SCHOOL OF **COMPUTER** ... - 2002 - ece.cmu.edu

... used to break into **computer** systems over ... Specifically, these **worms** spread exponentially

by having ... NIs offer exciting possibilities for **detecting** and containing ...

[Cited by 28](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 16 versions](#)

Specialized hardware for deep network **packet** filtering

YH Cho, S Navab, WH Mangione-Smith - [Lecture Notes in Computer Science](#), 2002 - Springer

... As **computer networks** grow faster, it becomes easier for the ... that is used by Snort to **detect** one type ... CERT Advisory CA-2001-19 Code Red Worm Exploiting Buffer ...

[Cited by 98](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 13 versions](#)

Hierarchical event monitoring and analysis

PA Porras, A Valdes - [US Patent 6,484,203](#), 2002 - [Google Patents](#)

... an **enterprise network**, the net- work monitors **detecting** suspicious network ... 6 is a diagram of a **computer platform** suitable for ... eg, the spreading of a worm or a ...

[Cited by 6](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

System and method for the detection of and reaction to **computer** hacker denial of service attacks

RM Silverman - [US Patent App. 09/945,172](#), 2001 - [Google Patents](#)

... relates to monitoring and analyzing a communications network for the purpose of **detecting** "hacker" attacks ... Although **computer viruses**, **worms**, and other so ...

[Web Search](#) - [All 3 versions](#)

Security for the Internet Protocol

RJ Atkinson - 1995 - [Storming Media](#)

... to mean that the receiver can **detect** improper modification ... was the now infamous "Internet Worm" that exploited ... a manner friendly to modern **computer** processors. ...

[Cited by 555](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 4 versions](#)

Fast barrier synchronization in wormhole k-ary n-cube networks withmultidestination **worms**-

► [psu.edu](#) (pdf)

DK Panda - ... on High-Performance **Computer** Architecture, 1995. [Proceedings ...](#), 1995 - [ieeexplore.ieee.org](#)

... of **Computer** and Information Science The Ohio State University ... state' or 'busy loop-ing' to **detect** this signal. ... a barrier z using gather and broadcasting worms. ...

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Practical multicasting on a nonbroadcast subnetwork- ► [ieee-icnp.org](#) (pdf)

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Change detection algorithms for information assurance of **computer** networks

AA Cardenas - 2002 - [Storming Media](#)

... As our reliance on **computer** networks grows, the ... of active **worms** throught the Internet, distributed ... baseline for **detecting** abnormalities generated by intrusions ...

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Accurate buffer overflow detection via abstract payload execution

T Toth, C Kruegel - [Lecture notes in computer science](#), 2002 - Springer

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consequently the probability of detecting anomalous (ie ... 7 Internet Worm Analogy ...
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J Costa-Requena - Seminar on Network Security, 2001 - tml.tkk.fi

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KT Kim - US Patent App. 09/784,719, 2001 - Google Patents

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C Dichter - US Patent 5,896,443, 1999 - Google Patents

... box 105 is used to 1Q **worm** protocol ... which is capable of being understood by a **computer** or other ... one of a bandsplitting and an echo **detecting** collisions between ...

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C Krugel, T Toth, C Kerer - *Lecture Notes in Computer Science*, 2002 - Springer

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TF Liston - US Patent App. 10/308,980, 2002 - Google Patents

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A prototype implementation of a network-level intrusion detection system. Technical report number ...

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G Buzzard, T Mudge - ..., computers and applications: Architecture, software, computer ..., 1988 - [portal.acm.org](#)
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... **Computer Emergency Response Team**, Trojan Horse, virus, **worm**. ... the receiving node can **detect** some types of ... between this source and **destination computer** and the ...

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Computer connections

RE Dessy - Laboratory Automation and Information Management, 1996 - Elsevier

... process, by placing it on **WORM** drives where ... interactive multimedia, and high speed **computer communications**, as ... CRC approach which can both **detect** errors and ...

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... Inva- sive software (eg, viruses, **worms**, Trojan horses ... a second line of defense for **computer** and network ... the research domain of **detecting** intrusions distributed ...

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B Cheswick - in Proc. Summer USENIX Conference, 1990 - [eprints.kfupm.edu.sa](#)

... os (UMIPS) 4.0 inet Copyright 1986, MIPS **Computer Systems** All ... s not clear whether a **clever worm** could get ... does not provide logging to **detect** invasion attempts. ...

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G Vigna, RA Kemmerer - Journal of Computer Security, 1999 - IOS Press

... to **detect** "doorknob rattling" and **worm**-like attacks ... tech- nique has been applied to **computer networks**, and ... engine is the actual intrusion **detecting** component ...

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RS Hoefelmeyer, TE Phillips - US Patent App. 09/862,851, 2001 - Google Patents

... code, such as a Trojan horse, **worm**, etc. ... by at least one of the scanning **computer systems**. ... according to claim 10, further comprising **detecting** malicious code ...

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C Izu, R Belvide, C Jesshope - Parallel and Distributed Processing, 1994. Proceedings. ..., 1994 - [ieeexplore.ieee.org](#)

... node the **packet** is immediately forwarded on the lead- ing ... when there is a blockage
 MW - Mad-worm: a mad ... A link control mechanism is needed to **detect** the start ...
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Method for deadlock free and and reliable routing in a packet switched network
 B Abali, KJ Reilly, CB Stunkel - US Patent 6,031,835, 2000 - Google Patents
 ... all the central queues be monitored to **detect** a potential ... are com- monly used in
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 M Yang, LM Ni - Proceedings of the international Conference on Parallel ..., 1997 - Citeseer
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Backdoors and Trojan Horses By the Internet Security Systems' X-Force
 NT Windows - Information Security Technical Report, 2001 - Elsevier
 ... the user and the name of the computer, and get ... Note: When detecting the Doly Trojan
 Horse using a network ... Trojan v1.5 — Connected.' in a TCP packet with a ...
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A Worm Filter Based on the Number of Unacknowledged Requests

We propose a new filter for preventing **computer worms** from ... **destination** addresses, the **destination** port, and the protocol number of an out- ... equal to the **threshold**, the **worm** filter checks the value of the least recently used **multiple** operating systems to run concurrently on a **single physical computer**. ...

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LNAI 3930 - Fast Detection of Worm Infection for Large-Scale Networks

threshold selection, similarity detection algorithm and fine analysis. ... monitoring the number of ICMP **destination** unreachable packets generated by routers packets are certain, such as 80, 25 and 21 etc. but the **source** ports of the request ... can find that no **single** similarity can detect a **worm's** attack ...

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Efficient Content-Based Detection of Zero-Day Worms

directed to **multiple destination** hosts. We evaluate our method substrings will only be sent to a **single destination** before they a fixed cache size of 500 msec, distinct **destination threshold** of 10, sampling scanning **worms**, the first external **source** may probe and infect an entire network, ...

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WormShield: Fast Worm Signature Generation with Distributed ...

Single substring. Disjoint string tokens. **Multiple** substrings. **Single** dispersion, where it is a **threshold** for both **source** and **destination** addresses. Fig. ACM Conference on Computer and Communications Security, 2003, pp. ...

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along with the corresponding **threshold** line. Finally, in the bottom high-rate flows from a **single source** to a **single destination** which ... **Multiple** instances where a large number of packets are sent to a **single destination** Taxonomy of **Computer Worms**. In ACM CCS Workshop on Rapid Malcode (**WORM**), October 2003 ...

cs-people.bu.edu/anukool/pubs/anomalychar-imc04.pdf - Similar

by A Lakhina - 2004 - Cited by 104 - Related articles

Methods and apparatus for many-to-one connection-rate monitoring ...

If the pre-set **threshold** rate is exceeded by the measured traffic rate, ... This reduces damage because the **worm** or virus is able to spread less for example, by programming new **source/destination** traffic streams into a route ... The switching or routing apparatus 102 may be configured with **multiple ports** 202. ...

www.feqs.org/patents/app/20090016221 - Cached - Similar

Method and system for counting new **destination** addresses - Patent

Packets of a certain type from a certain **source** are directed to a system that Even though the impact of a **single worm** on any given piece of network ... by the fact that the current solutions are based on **multiple** components, Ti and the expected number of **new destinations** is greater than a **threshold**. ...

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[PDF] Simulating Realistic Network Worm Traffic for Worm Warning System ...

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addresses that are not associated with a reachable **computer**. In many cases, routers that receive a packet ... the total number of packets for any **source** or **destination** machine or port exceeds a **threshold** N. DIBS within a configurable time interval Δt ... to a **single source** machine, **multiple source** machines, and ...

www.ssfnet.org/Papers/p022-tijlenslam.pdf - Similar

by M Lijlenslam - 2003 - Cited by 95 - Related articles - All 20 versions

[PDF] INTERNATIONAL COMPUTER SCIENCE INSTITUTE GQ: Realizing a System to ...

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phenomenon of a **single remote source** engaging in heavy scanning of the telescope's address **source**. By matching the **source's** messages against **multiple** scripts, probed the honeypot AND the request is below a configurable **threshold** Finally, we present the **worms** GQ captured over the course of a month of ...

research.microsoft.com/en-us/people/wdcul/papers/gq-techreport.pdf - Similar

by W Cui - Related articles - All 10 versions

Collaborative Internet Worm Containment

cooperation among **multiple** sites, enabled by trust integration and alert-correlation methodologies;6 ... It also remembers the set of **source** addresses S(i,j) and **destination** ... Once L(i,j) is greater than a local prevalence **threshold** Ti and the scalable wire-speed implementation in a **single worm** sensor. ...

doi.ieeecomputersociety.org/10.1109/MSP.2005.63 - Similar

by M Cai - 2005 - Cited by 32 - Related articles - All 10 versions

Computer Networks : SweetBait: Zero-hour worm detection and ...

Oct 13, 2006 ... As next-generation **computer worms** may spread within minutes to millions of SweetBait is comprised of **multiple** components with distinct roles, as well as the **source** and **destination** IP addresses involved in the data exchange. ... When a signature's activity exceeds a configurable **threshold**, ...

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by G Portokalidis - 2007 - Cited by 6 - Related articles - All 5 versions

Fast detection and visualization of network attacks on parallel ...

aDivision of **Computer** and Communication Engineering, Korea University, ... A flow is a **single** network connection and can consist of millions of packets. So there are **multiple source** and **destination** hosts, where a particular The **threshold** for determining DDOS or **worm** attacks is 50 (flows per second), ...

linkinghub.elsevier.com/retrieve/pii/S0167404808001363 - Similar

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[PPT] 15-744: Computer Networking

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How to compute prevalence(w), sources(w) and destinations(w) efficiently? ... **multiple** bitmaps each mapped to progressively smaller and smaller portions of the hash space. bitmap recycled if ... counters > dispersion **threshold**? report key as suspicious **worm** ... **Single** sensor algorithmics + centralized aggregators ...

www.cs.cmu.edu/~srini/15-744/S08/lectures/23-worms.ppt - Similar

A Multi-Resolution Approach for **Worm** Detection and Containment
unions of the set of **destinations** contacted over **multiple** time bins. and add the

destination to the contact set of the **source**. ... a **single-resolution threshold**-based scheme, to detect **worms** with rate greater than r scans per second using nal of **Computer Security**, 10:105–136, 2002. ...
www.cs.cmu.edu/~ylxie/papers/dsn06.pdf - Similar
 by V Sekar - Cited by 10 - Related articles - All 13 versions
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Very Fast Containment of Scanning Worms

May 17, 2004 ... **Computer worms** – malicious, self propagating programs ... Without containment, even a **single breach** can lead to a complete internal infection. This measures the number of new **destinations** a host can visit in a given period Then when a **source IP** crosses the **threshold** for scan detection, ...
www.icisi.berkeley.edu/~nweaver/containment/ - Cached - Similar

[PDF] Very Fast Containment of Scanning Worms

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 for cooperation that enable **multiple** containment devices ... **Computer worms** — malicious, self propagating programs ... each cell (which might encompass just a **single machine**), a **source IP** crosses the **threshold** for scan detection, the ... **worm's** overlay network, informing the **destination worm** ...
www.icisi.berkeley.edu/~nweaver/containment/paper.pdf - Similar
 by N Weaver - Cited by 197 - Related articles - All 18 versions

[PPT] An active queue management scheme to contain high bandwidth flows

File Format: Microsoft Powerpoint - View as HTML
 Similar to how caches are employed in **computer** memory systems ... Drop rate keeps increasing if flow stays above **threshold**; Tends to punish nonresponsive flows, high-BW flows Infected machine contacting **multiple destinations** (**worm** propagation); **Multiple source** machines targeting a **destination** (DDOS) ...
www.ece.tamu.edu/~reddy/presentations/security_05.ppt - Similar

[PPT] Real-time Traffic monitoring and containment

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 Similar to how caches are employed in **computer** memory systems. Exploit locality ... All parameters: **threshold**, probability and cache size are passed as parameters to the filter Infected machine contacting **multiple destinations** (**worm** propagation); **Multiple source** machines targeting a **destination** (DDOS) ...
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[PDF] Automated Worm Fingerprinting

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worms typically spread by a **single** mechanism and did between **multiple** sensors. By contrast, Earlybird has If the **source** and **destination** counts exceed the dispersion **threshold**, then the content string is reported. works. to appear in the Journal of **Computer Security**, 2004. ...
www-cse.ucsd.edu/~savage/papers/OSDI04.pdf - Similar
 by S Singh - Cited by 336 - Related articles - All 60 versions

[PDF] Collaborative Internet Worm Containment

File Format: PDF/Adobe Acrobat - View as HTML
 May 6, 2005 ... Cooperation among **multiple** sites, enabled by trust in- (b) The effects of the global prevalence **threshold** show that collaborative monitors can detect sig- **source IP** addresses and port numbers, **destination IP** ad- robust, scalable wire-speed implementation in a **single worm** sensor. ...
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[PDF] Fast Detection of Scanning Worm Infections

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This earlier work used a **single** sequential hypothesis test per host and did a temporary outage at a **destination** network at which **multiple** remote hosts that a local host initiates to a given **destination** port to a **threshold**, taxonomy of **computer worms**. In Proceedings of the 2003 ACM Workshop on ...
www.eecs.harvard.edu/~stuart/papers/scanworm.pdf - Similar
 by SE Schechter - 2004 - Cited by 102 - Related articles

[PDF] Analysis of the "SQL Slammer" **worm** and its effects on Indiana ...
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 choice of **source** and **destination** IP addresses. In the case of the **source** ... **multiple** hosts, each using a different seed, the effect on the internet Ingress of the **worm** required that only a **single** one of those points ... reusable when the total number of multicast (S,G) entries fall below the reuse **threshold**. ...
paintsquirl.ucs.indiana.edu/pdf/SLAMMER.pdf - Similar
 by G Travis - Cited by 2 - Related articles - All 6 versions

[PS] Digging For **Worms**, Fishing For Answers
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 dress accessing 10 different ports on the same **destination** ... to scan **multiple** ports, or **multiple** hosts, for the number of connections to cross a particular **threshold**. [12], where a connection consists of a **single source** address ACM Conference on Computer and Communications Secu- ...
<https://users.cs.jmu.edu/buchhofp/publications/digging.ps> - Similar

[PDF] The EarlyBird System for Real-time Detection of Unknown **Worms**
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 for a popular piece of content with a **single** counter, we believe distinct **source-destination** pairs for the signature under consid- eration. The parameter lection of the various **threshold** levels as well as the length of the warning for internet **worms**," Department of Computer Science, Univ. of ...
www.cs.unc.edu/~jeffay/courses/nidsS05/signatures/savage-earlybird03.pdf - Similar
 by S Singh - 2003 - Cited by 99 - Related articles

[PDF] **Worm** Detection
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destinations, and distinct **source-destination** ... with frequency greater than a **threshold**.. occurrenceRate. 8. Alerts. As each packet generates **multiple** signatures, ... **Single** packet application identifier strings, eg. "SSH- Department of Computer Science, Technical Report CS2003-. 0761, August 2003. ...
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 inefficient, however a Slammer infected **computer** would try as many as choice of **source** and **destination** IP addresses. In the case of the **source** Ingress of the **worm** required that only a **single** one of those points ... reusable when the total number of multicast (S,G) entries fall below the reuse **threshold**. ...
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[doc] Survey on Polymorphic **Worms**
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 Department of Computer Science. Lamar University Unlike Autograph that is based on matching a **single** substring, **multiple** substrings are used If the count of **source destination** IP pair exceeds some **threshold** value and number of ...
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Counting every **source** and **destination** is expensive. ... So, do **multiple** different hashes (say 3) – **worm** content is flagged only if counts along all hashes exceed a **threshold** ...

Single UDP packet exploits flaw in the passive ...

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Counting every **source** and **destination** is expensive. ... So, do **multiple** different hashes (say 3) – **worm** content is flagged only if counts along all hashes exceed a **threshold**. •

Include the **destination** port in the hash of the packet content **Single UDP packet exploits flaw in the passive ...**

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Department of **Computer & Information Science & Engineering** RESET packets to an external host exceeds a **threshold** value within a period of time, it reports th ... connections to random **destination** addresses from a **single** forged **source** address. An attack session may consist of **multiple** inbound packets. ...

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always increase as **computer** systems become more and more ... edge routers, which are under a **single** administrative con- ... 0, the probability of **multiple** scan messages hitting the ..., a pre-configured **threshold**, the agent randomly drops a min- any **source** address in S to any **destination** port in P during ...

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source and **destination** addresses and ports. SWORD coalesces the header information ...

Multiple attacks on a specific vulnerability, either from a **single** host or from detect **worm** connections to exceed the **threshold** within a window. Symposium on

Performance Evaluation of **Computer** and Telecommunication ...

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First, finding a **single threshold** rate that accommo- ... browser generating **multiple** concurrent connections to fetch embedded objects vs. an SSH client connecting to a server). Connection information includes a **source** address, s, a **destination** address, d,

..... R. A Taxonomy of **Computer Worms**. In Proceedings ...

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spread of failed connections over **multiple destinations** ... collected during any large **worm** attack such as Code every **single source** which produced connections to N or more

unique **destinations** over a ... Since even a low detection **threshold** can drastically

Portscans", Seventh ACM Conference on **Computer** ...

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distinct **source** and **destination** IPs for each suspicious content, in order to keep the score is higher than some **threshold**, we treat this as possible **worm** propagation and Most current attack detection systems are constrained to a **single** ingress commonly matched as **anomalous data among multiple sites**. ...

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A fundamental condition for the system to detect a **worm** is that the ... **multiple destinations**. The **destinations threshold** used for triggering an alert is ... A **single destination** can be stored within the entry, but for more than one desti- ... CACHE **MULTIPLE DST** Substring has **multiple destinations** stored in extra ta- ...

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DSC (Destination-Source Correlation) based on **worm** behavior. The proposed algorithm can fast early warning, ... 2) **SIMO (single-input multiple-output)** behavior: if a **worm** ... 2008 International Conference on Computer Science and Software Engineering ... 9) **Threshold_Ni**: the **threshold** value of scan times of the ...

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algorithm for **worm** detection using **multiple** parameters as indicators in Section VII. ... As an end host, a **single computer** can apply various strategies to detect and respond to **worm** attacks. mistypes a **destination** address, the **source** address might ... of new victims is greater than the adaptive **threshold T** ...

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computer security, **computer worms**, scanning **worms**, **worm** stored a **single** unused IP address over the course of 25 days, time to random **destinations**, then at time t the overall **worm** adjust its **worm** detection **threshold** even higher to prevent We could not find a good **source** of data from which to ...

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distinct **source** and **destination** IPs for each suspicious content, score is higher than some **threshold**, we treat this as possible **worm** propagation and Most current attack detection systems are constrained to a **single** ingress signatures that may be used for filtering **worm** attacks at **multiple sites**. ...

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Oct 20, 2004 ... pose an algorithm based on the **Threshold** Random Walk ... lar cell or scan **multiple** cells depending on the scanning and **destination** IP address and **source** and

destination port number. able to detect scanning **worm** propagation in a **single** scan-
 A taxonomy of **computer worms**. In The First ...
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Detecting Public Network Attacks Using Signatures and Fast Content ...
 Dec 11, 2008 ... Network **worms** or viruses are a growing threat to the security of public and
 private ... said first monitoring comprises monitoring **multiple destinations**: An IP
 header identifies both **source** and **destination** for the payload. Thus when comparing
 against the **threshold** for **source** addresses, ...
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Containment of Unknown and Polymorphic Fast Spreading Worms ...
 Sep 11, 2008 ... A **computer**-readable media tangibly embodying a program of
 instructions one may also need to have a maximum **threshold**, MAX TIMEOUT, for the
 waiting time. ... To achieve this, one can either change the **destination** IP address of
 the To verify this, the **worm source** code was also instructed ...
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Symantec Security Response - Glossary - Symantec Corp.
 This program drops the virus or **worm** onto the victim's **computer**. By using **multiple**
 methods and techniques, blended threats can rapidly spread ... Any files in the **source**
 folder are copied to the **destination** folder. Administrators define **threshold** rules to
 determine how notifications are to be delivered. ...
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 involving **multiple destination** ports (multi-vector) and con- sisting of less than 10
 contacted ... connection filtering, N connections from a **single source** are recorded, and all
 subsequent **threshold**. The coverage **threshold** defines the number of Internet
worm activity. FIRST Conference on **Computer Security** ...
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threshold of similar messages are seen on the network before signaling a **worm** presence.
 A ver- ... **worm** to others. The **source** and **destination** port number of **multiple** vectors
 in a **single** payload, in order to bridge net- ...
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 The data **source** for the background traf- ... components: **worm** detection based on unique
destination ... emulation experiments are as follows: sending rate **threshold** network
 firewalls facilitates the detection of **single** random scanners. ceedings of the 10th ACM
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 marks using a **single** rule. This keeps scrip, dstop: **Source** and **destination** IP addresses
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Computer Science, pages 165–184. Springer, 2006. ...
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Handling of DDoS attacks from NAT or proxy devices - US 20090144806
 Jun 4, 2009 ... After taking control of a **computer**, a **worm** often uses the ... To a system on the Internet, the NAT device itself appears to be the **source/destination** for this traffic. ... This **threshold** may be determined, for example, by the number of A proxy server may pipeline HTTP messages from **multiple** ...
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Automated detection and containment of **worms** and viruses into ...
Computer worms rely on active methods of infecting host autonomy, dynamic coverage, anomaly detection, **multiple** ... coordination takes place, which means there is no **single** ... **threshold**. The most significant parameters used in our ... **destination-source** infection patterns that can be useful to ...
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 by allowing, in certain circumstances, the coupling of **multiple** supercomputers to perform (**Source**). GridFTP Server. (**Destination**). Cactus Application ... **Worm** thorns. Resource. Selector. Migrator. **Computer**. Storage ... The length of a time quantum, degradation **threshold**, and number of consecutive violations ...
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 In a protocol graph, a vertex represents a **single** IP ad- SMTP: SMTP consists of TCP traffic where the **source** or **destination** port false alarm rate for any given detection **threshold** (Section 4.2). In this section, a **worm** would be to consider graphs that involve **multiple** protocols at once, ...
www.cert.org/netsec/publications/raid2007-collins-hit-worm-detect-bot-indent-sep07.pdf - Similar
 by MP Collins - 2007 - Cited by 7 - Related articles

[PPT] Data Mining in Cyber Threat Analysis
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 For the same **source (destination)** IP address, number of unique **destination** ... Detected a distributed windows networking scan from **multiple source** locations ... Detected several instances of slapper **worm** that were not identified by SNORT ... the scanning **threshold**) which results in the large memory requirements ...
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destination. This information is exchanged between the networks that form the A

threshold value is specified from the novelty output of An extension of this work would be to correlate the novelty values from **multiple** routers, to be ... The Evolution of Viruses and Worms. Statistical Methods in Computer ...

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[PDF] A Reputation-based System for the Quarantine of Random Scanning Worms

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connections increases above a pre-set **threshold**, the cell is considered towards the reputation of an attacker, but certainly more than a **single** report by the **worm** and the last time an attack reached its intended **destination**. R. A Taxonomy of Computer Worms. Proceedings of the 2003 ACM Workshop on ...

www.cs.rpi.edu/research/pdf/05-01.pdf - Similar

by SE Coull - Related articles

[PDF] SweetBait: Zero-Hour Worm Detection and Containment Using Honeypots

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SweetBait is comprised of **multiple** components with distinct roles, which can be ... a configurable **threshold**, the sensors will be instructed to filter the offending ... **source** and **destination** IPs information. As a **single** **CCC** obviously is susceptible less whether they are the result of a **computer worm**, ...

www.cs.vu.nl/~herbertb/papers/sweetbait-tr-cs-015.pdf - Similar

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[PDF] Characterization of Network-Wide Anomalies in Traffic Flows

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May 19, 2004 ... anomalies (values above the **threshold** represent anomaly detection). The periodicity in the original a **single** **destination** IP, with no dom-inant **source** IP. Can involve **multiple** ... tion of **destination** IP and port. Can involve **multiple** OD flows and typi- A Taxonomy of Computer Worms. In ACM ...

www.cs.bu.edu/techreports/pdf/2004-020-traffic-flow-anomalies.pdf - Similar

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[PPT] Network Worms: Attacks and Defenses

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Love Bug worm: \$8.75 billion. Statistics: Computer Economics Inc., Carlsbad, California ... Used **multiple** vulnerabilities, propagate to "nearby" sys Hash : based on **Source** (or **Destination**); Sample : keep only a sample of the ... bitmaps to tell if number of distinct addresses per hash crosses **threshold** ...

crypto.stanford.edu/cs155old/cs155-spring06/16-worms.ppt - Similar

[PDF] Advanced Polymorphic Worms: Evading IDS by Blending in with Normal ...

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Mar 27, 2004 ... Normal traffic can provide **worms** with a very good **source** of infor that selects an attack vector, generates a set of **destinations**, In our example, we presume the **worm** uses a **single** attack vector, an ex There has been a number of documented studies that investigated **computer worms** and ...

www.packetstormsecurity.org/papers/IDS/nids/Advanced-Polymorphic-Worms.pdf - Similar

by O Kolesnikov - Cited by 45 - Related articles - All 42 versions

Morris Worm

The term **computer** virus was first used in a formal way by Fred Cohen at USC.

Additionally, a **threshold** could be included to check for repeated password ... version of the **worm**, a VAX version, and the **source** code for the vector program. The way hosts were added to this list implies that a **single** **worm** might ...

wiretap.area.com/Gopher/Library/Techdoc/Virus/inetvir.823 - Cached - Similar

[PDF] Mining Anomalies Using Traffic Feature Distributions

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anomalies that span **multiple** traffic features. Finally, we tackle the anomaly classification

problem ... found that IP address distributions change during **worm** outbreaks. ... Traffic from **single source** to many **destinations**, e.g., that setting the volume **threshold** low enough to detect the majority. Network ...

www.sigcomm.org/sigcomm2005/paper-LakCro.pdf - Similar
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[PS] The EarlyBird System for Real-time Detection of Unknown **Worms**

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or **source-destination** pairs corresponding to signatures that ac-, count for high traffic volumes identified ... **multiple** links and the exploit could be fragmented differently ... (**threshold**) number of times, then we instantiate counters to warning for internet **worms**,^{*} Department of Computer Science, Univ. of ...

www.cse.ucsd.edu/Dienst/Repository/2.0/Body/ncstrl.ucsd_cse/CS2003-0761/postscript-
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by S Singh - 2003 - Cited by 99 - Related articles

Autograph: Toward Automated, Distributed **Worm** Signature Detection

In Section 3, we describe the detailed workings of a **single** Autograph monitor: its ...

Autograph stores the **source** and **destination** addresses of each inbound a new **worm** after the **worm's** release, and demonstrate that operating **multiple**, Note that for a port scanner detection **threshold** $s = 1$, the shortest ...

www.lib.unb.ca/engineering/usenix/04security/tech/full_papers/kim/kim_html/autograph-html.html - Cached - Similar
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(WO/2008/002801) DETECTION OF FREQUENT AND DISPERSED INVARIANTS

A **worm** can be described as a destructive program that automatically The **Source** and **Destination** IP Hash values are formed by scrambling the bits and ... or equal to a programmable **threshold** the **source/destination** scaling factors are be practiced with other computer system configurations, including **single**- ...

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[PDF] Automated **Worm** Fingerprinting

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May 8, 2009 ... To maintain a count of unique **source** and **destination** ... easy to envision **worms** for which the invariant content is a string smaller than a **single** ... uses **multiple** bitmaps each mapped to progressively smaller and smaller portions of ... By using a lower dispersion **threshold** one can respond to a **worm** ...

www.csd.uoc.gr/~hy558/reports/report_worm_fingerprinting.pdf - Similar

[PDF] WormTerminator: An Effective Containment of Unknown and ...

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destination or drop the **worm** traffic and raise an alarm to the user. have a maximum **threshold**, MAX TIMEOUT, for the waiting put **multiple**, and possibly multithreaded, processor cores onto a **single** processor chip so as to fully utilize the avail- also instruct the **worm source** code directly and get very ...

cs.gmu.edu/~xwanger/Publications/ANCS2006-WormTerminator.pdf - Similar
by S Chen - 2006 - Cited by 2 - Related articles

[PS] Virus Throttling for Instant Messaging

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Computer worms spread over networks, the particular ... called the epidemic **threshold**. In a fully connected net- ... It is assumed that the infection takes place with a **single**. message. lay queue, their **destinations** added to the working set ... a message is sent to **multiple** recipients simultaneously. ...

www.hpl.hp.com/techreports/2004/HPL-2004-81.ps - Similar
by MM Williamson - Cited by 19 - Related articles - All 6 versions

[PDF] On the Detection and Origin Identification of Mobile **Worms**

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consisting of the start, duration, **source**, and **destination** responding to the same transaction into a **single semantic** the long-term average passes a **threshold**, the detector raises therefore **multiple reverse paths** lead to that node. (b) Un- like **worms**, non-malicious node contacts do not tend to form ...
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Mar 19, 2002 ... distribution of **source IP** addresses of the non-**worm** intrusions ...
 Distribution: Sources and **destinations** of intrusions from Horizontal Scan - is a scan from a **single source** of sev- ... **threshold** (1 hour) and the minimum **threshold** for the
 In *Journal of Computer Security*, 2002. ...
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anomaly detection scheme that detects **computer worms** by **Source** and **destination ports'** Kullback-Leibler divergences at infected endpoints. ... fected with a **single infection** of each **worm** are outlined in Fig. 1. From Fig. in Section IV-A] is the **threshold** number of sessions below which **worm** detection is ...
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Department of **Computer** and Information Science. The Ohio State University, Columbus, OH 43210-1277 from **multiple destinations** with a **single** message. E-cube. Turn-model **source destination** When the **threshold** is reached, more than one i-reserve **worms** are used to cover **destinations** in the columns. ...
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[Entropy Based Evaluation of Communication Predictability in ...](#)

The author is with the Department of Electrical and **Computer** ... forms of networking such as packet switching and **worm**- accuracy **threshold**, below which prediction should not be attempted. ... of the **single-source destinations**. The events are se- analysis of the benefit of tracking **multiple successors** may ...
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Jan 22, 2004 ... per **source** to count all the ports and **destinations** each **source** talks to. the same, except that the **threshold** for detection has to be tuned the presence of DoS attacks which are **single** or **multiple source** taxonomy of **computer worms**," in *Proceedings of the ACM Workshop of ...*
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definition of a failed connection and how the **threshold** tination port 80) from a **computer** with a **source IP** S. ... **Source** port or 0 for **multiple** **source** ports dstport. **Destination** port ... **worm**: the host is engaged in its usual P2P activity on more than 1 **destination IP** on a **single destination** port. 'TP' ...
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worms with **multiple** disjoint string tokens that are shorter than the **single** substrings used in to that of generating **worm** signatures at a **single** monitor in. Earlybird [32]. t is a **threshold** for both **source** and **destination** addresses. Taxonomy of **Computer Worms**." Proc. 2003 ACM Workshop Rapid ...

www.computer.org/portal/cms_docs_transactions/transactions/tdsc/featured_article/q0088.pdf - [Similar](#)

[Paper] Mining Frequency Content of Network Traffic for Intrusion ...

The last type may be used in detecting traffic patterns when a **worm** or virus ... each connection Compare with a **threshold** value Report attacks Local Frequency ... A pair of **source** and **destination** IP addresses A **single** protocol or a set of ... is not independent and is possibly originated from one **source computer**, ...

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Tools

Best for: **worm** experiment generation and visualization ... used to generate background traffic in a network as the **multiple** clients keep contacting clusters whose traffic is greater than a **threshold** (either in terms of packet number or ... **destination** IP, **source** port, **destination** port or protocol) and also in ...

www.isi.edu/deler/tools.html - [Cached](#) - [Similar](#)

CPM Dictionary: T | Contingency Planning & Management

Task Force: Combination of **single** resources assembled for a particular tactical need, ...

Threshold: Number of events needed to satisfy certain criteria; ... includes identities and locations of the **source(s)** and **destination(s)**, ... that stimulates the activity of the payload, such as a virus or **worm**; ...

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in lost productivity owing to interruptions in **computer** and Autograph stores the **source** and **destination** addresses of ... port, the suspicious flow pool contains more than a **threshold** number of flows θ. 5.1 **Single** vs. **Multiple** Monitors. Let us now measure the time required for an Autograph mon- ...

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IJCSNS International Journal of **Computer** Science and Network Security, ... within a local network there will soon be **multiple** ones. to use ICMP "**Destination** Unreachable" messages collected ... **threshold** to judge whether a **worm** is propagating or not. ... proposed P2P overlay network, we developed a **single** ...

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Point to Multipoint Traffic from **single** source to many des- Counts over a **threshold** provoke GridS to report a suspected **worm**. to check that the same content propagate not just between **multiple** **source-destination** pairs, but [17] Automatic Extraction of **Computer** Virus Signatures :Jeffrey O. Kephart ...

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FEDERAL ...

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The attacker is also able to launch attacks against **multiple** targets using the "mdos" ...

Using TFN, a **single** attacker can launch an attack from dozens of computers on which ...

One of the critiques of this subsection is the \$5000 damage **threshold**. He

programmed the **worm** to multiply only once on a **computer**, ...

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by E.J Sinrod - 2000 - Cited by 7 - Related articles

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Source and **destination** IP address. - Next hop router's IP address **Computer worms** cost European ISPs 123 Million € (The Register., May 2004) ...

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outgoing connections to unique **destination** addresses and ports exceed a **threshold** and

share detection information with each other to improve false detection rates. a **single**

slow **worm** detection window (Fig. 6). At the end of a **worm** modified blaster **worm**

source code [11]. To emulate **multiple** malicious ...

www.scs.carleton.ca/~kranakis/Papers/cisda09.pdf - Similar

LITMUS: Live Intrusion Tracking via Multiple Unsupervised STANNOS

Although this time tested approach is the backbone of current **computer** security systems,

... Figure 3 illustrates a **single** instantiation of a Windows-based LITMUS program, the

middle, **source** IPs, and the rightmost, **destination** IPs. ... In Figure 6, for instance, LITMUS

reveals the Nimda **worm** attempting to gain ...

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19th Annual Computer Security Applications Conference (ACSAC ...

Typical IDSs with **multiple** models sum the output of the models and compare to ... They

claim that the resulting system was always better than a **threshold**-based system. ... The

idea is to throttle the load based on new email **destinations**, ... that nothing much has

changed in the past 15 years since the Morris **Worm**, ...

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single product solution, but rather a holistic approach is required to look ... As early as

November 3, 1988, Robert Morris Jr. released a **worm** which later ... In this event, often the

source is a legitimate IP. By spawning **multiple** ... **threshold** to an acceptable number of

packets to be processed by the **computer**. ...

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is modified with different **threshold** values and the impor- tance of failed connection-

attempts is ... of a **worm** an infected **computer** needs to scan many others ... entropy of the

source and **destination** IP addresses and port **Multiple** targets are typical for a **worm**,

while a **single** target could be a denial of ser- ...

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TCP connection **threshold**; Use **worm** signature for outbound traffic ... **Single** logical point

of failure, potential for congestion. No security ... Attempt **multiple**, redundant routes from

the **source** to the **destination**. ...

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[PDF] Qi Zhao

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rence across all the nodes in a network are above a certain **threshold**. ... **source/destination** IP addresses ranked by traffic volume to incipient **worm** ... using traditional **single** node mechanisms since the signal is usually too ... and **multiple** times better than the sampling scheme (e.g., Cisco sampled NetFlow). ...

www.cc.gatech.edu/~qzhao/CV_qzhao.pdf - Similar

MIT CSAIL Research Abstracts

On the Adaptive Real-Time Detection of Fast-Propagating Network **Worms** ... Finding a **single threshold** rate that accommodates all (or almost all) benign ... a Web browser generating **multiple** concurrent connections to fetch embedded ... on the rate at which the infected hosts initiate connections to **new destinations**. ...

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entry in the prevalence table, a list of unique **source-destination** IP address duced by subgraphs from **multiple** executables, the analyzer compared the list **worm**, which is only 376 bytes long and fits into a **single** UDP packet, has a CFG In 18th Annual Computer Security Applications Conference (AC- ...

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not be easily diagnosed from a **single** point in the network. ample may be to include hashed **source** and **destination** IP ... security data from **multiple** sources is likely to be of great knowledge of **computer worms** and self-propagating mal- tal number of such records exceeds a given **threshold**. (The ...

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observed when a **worm** or virus is spreading itself from an infected **computer** to other computers. used in detecting attacks originated from a **single source** IP ... sent to the **destination** PC node through the hub (located at the ... below the **threshold** value 3.0, both connecting IPs are marked as suspicious. ...

[www.iitisci.org/Journal/CV\\$/sci/pdfs/P602668.pdf](http://www.iitisci.org/Journal/CV$/sci/pdfs/P602668.pdf) - Similar

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SANS Institute - Intrusion Detection FAQ: Can you explain traffic ...

the most trusted **source** for **computer** security training, certification and research and a vertical scan as a **single** IP being scanned for **multiple** ports. ... would reduce the space down to the **source** and **destination** IP of the events. ... The anomaly **threshold** could be lowered when filtering was used since the ...

www.sans.org/resources/idaq/anomaly_detection.php - Cached - Similar

DoS and DDoS Attack Guide

Mar 3, 2008 ... All requests are coming in from a "**single**" **source** - you! Computer Crime Research Center's Network Security: DoS vs DDoS Attacks ... Can the **destination** IP Address that is being attacked be stopped? **Worm** activity, often the prelude to both spam and denial of service (DoS) attacks, ...

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Effective **worm** detection for various scan techniques

multiple parameters as indicators to detect **worm** events. ... As an end host, a **single computer** can apply various strategies to detect and re- spond to **worm** attacks. We

combine address segments using a distance **threshold**. a legitimate user mistypes a **destination** address, the **source** address might be marked ...
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observed when a **worm** or virus is spreading itself from an infected **computer** to other computers. used in detecting attacks originated from a **single source** IP target ... dependent and is possibly generated from one **source computer**. **threshold** value 3.0, both connecting IPs are marked as suspicious ...
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CCNP Self-Study: Understanding and Implementing Quality of Service ...

For example, when aggregating **multiple** access-layer switches into a ... In this context, faulty software includes **computer worms** and viruses, ... Packet loss—The measure of lost packets between any given **source** and **destination**. ... packets increases beyond a specific **threshold**, a jitter buffer underrun occurs. ...
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computer worm single source multiple destinations threshold

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